# Our Lady of the Lake Roman Catholic School Yearly Course Outline Math Fourth Grade 2025–2026

**Teacher's Name:** Laura Houte

## **Course Description**

In 4th Grade, our study of mathematics will include place value to the millions, base 10 operations, algebra, units of measurement, line plots, area and perimeter, and geometry. Lessons will also focus on the addition, subtraction, multiplication, and division of whole numbers, and the addition and subtraction of fractions, and decimals. Students will use a variety of manipulatives and adaptive software to solve both academic and real word problems.

### **Instructional Materials**

enVision Mathematics, Grade 4 (Pearson/Saavas)

### **Methods of Assessment and Distribution**

All test, quiz, and homework grades will be posted on PowerSchool (www.ollpowerschool.org). Please check for postings frequently. Each quarter, four tests and four quiz assessments will be administered.

Assessment Weighting	Grading Scale
60% Tests	A: 100-94
30% Quizzes	B: 93-86
10% Homework	C: 85-78
	D: 77-70

U: 69 and below

# **Tentative Course Calendar**

\*\* Dates and course content are subject to change at discretion of teacher or administration. \*\* Aug 7 – First day of school  $4^{th}$  -  $7^{th}$ 

Week	Standards	Objectives	Instructional	Assessments
		(The learner will)	Materials	
	4.NBT.2	read and write numbers to	Consumable	
	4.1101.2	100,000	textbook and	
		identify place and value in	Manipulatives	
		numbers to 100,000	Supplementary	
Marala (		nambers to roo,ooo	materials	
Week 1		write numbers in expanded form	materials	
Aug. 11-15		- The state of the	Lesson 1-1 and	
			supplemental lesson	
	4.NBT.2	read and write number to	Consumable	Quiz #1
	4.NBT.1	millions place	textbook,	
			manipulatives,	Place and value,
Week 2		identify place and value to	and	reading and
Aug. 18-22		100,000,000	supplementary	writing numbers
			materials	to 100 thousand
		use place value to compare	1	
		multi-digit whole numbers	Lesson 1-3 and supplemental lesson	
	4.NBT.2	recognize the relationship	Consumable	Test #1
	4.NBT.1	between adjacent digits in a	textbook,	Lessons 1-1
	4.NBT.3	multi-digit number (10 times the	manipulatives,	through 1-3
Week 3		value)	and	Place and value
Aug. 25-29			supplementary	to the millions
		use place value understanding	materials	
		to round multi-digit numbers less	Lesson 1-2 and	
		than one million to any place	supplemental lesson	
	4.NBT.3	use place value understanding	Consumable	Quiz #2
		to round multi-digit numbers less	textbook,	Lesson 1-4
		than one million to any place	manipulatives,	rounding
Wash .			and	
Week 4	4 MP 2	construct an argument to solve a	supplementary	
<b>Sept. 1-5</b> 9/1 Labor Day		word problem	materials	
No School		round numbers to whole	Lesson 1-4; 1-5 and	
		numbers to estimate sums and	supplemental lesson	
		differences		
		directices	Lesson 2-2 estimation	
Week 5	4 MP 2	round numbers to whole	Consumable	Test #2
Sept. 8-12		numbers to estimate sums and	textbook,	Lesson 1-4; 2-1
<b>3εμι. 0-12</b>	4.NBT.3	differences		

	4.NBT.4 4.NBT.4 4.OA.3	use the properties of addition to add whole numbers fluently (4.NBT.4) add and subtract whole numbers mentally using a variety of methods	manipulatives, and supplementary materials Lesson 2-2; and supplemental lesson	rounding and estimation
Week 6 Sept. 15-19 Spirit Week 9/19 Fun Run Kickoff	4.NBT.3 4.NBT.4 4.OA.3	round greater whole numbers to estimate sums and differences  add and subtract whole numbers mentally using a variety of methods	Consumable textbook, manipulatives, and supplementary materials  Lesson 2-1 properties of addition; 2-2, 2-3, 2-4 adding whole numbers; 2-1 adding whole numbers mentally;	Quiz #3 Lessons 2-1 through 2-4 addition and estimation
Week 7 Sept. 22-26	4.NBT.4 4.OA.3 4.NBT.4 4.OA.3 4.OA.2	round greater whole numbers to estimate sums and differences add and subtract whole numbers mentally using a variety of methods  solve word problems by using expressions with a symbol for the unknown number	Consumable textbook, manipulatives, and supplementary materials  2-5 and 2-6 subtraction Lesson 2-7 subtraction across zeros  supplemental lessons on writing expressions with a variable; stepping out expressions	Test #3  Unit 2- addition, subtraction and estimation
Week 8 Sept.29- Oct. 3 10/2 - Fun Run 10/2 - ½ day dismissal 10/3 - Faculty Inservice	4.NBT.4 4.OA.3 4.OA.2	solve word problems by using expressions with a symbol for the unknown number  Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself	Consumable textbook, manipulatives, and supplementary materials supplemental lessons on writing expressions with a variable; stepping out expressions	Quiz # 4 expressions

		find a specific number in the pattern by writing an expression	Lesson 14-1	
<b>Week 9</b> <b>Oct. 6-10</b> 10/10 - ½ day	4.NBT.4 4.OA.3 4.OA.2	solve word problems by using equations with a symbol for the unknown number  Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself	Consumable textbook, manipulatives, and supplementary materials supplemental lessons on writing equations with a variable; stepping out equations Lesson 14-3 repeating patterns; add equations to repeating patterns	Test #4  Unit 14 repeating patterns and number sequences 14-1; 14-3 and writing and solving expressions and equations
		2nd Quarter		
Week 10 Oct. 13-17	4.MD.3	Apply the area and perimeter formulas for rectangles in real-world and mathematical problems. Find the unknown length or width of a rectangle using the known area or perimeter	Consumable textbook, manipulatives, and supplementary materials  Lesson 13-6 and supplemental lesson Use equations to find missing information	Quiz # 1 Lesson 13-6 Finding area and perimeter using a formula Finding the unknown information of area or perimeter
Week 11 Oct. 20-24 10/24 Faculty Inservice 10/24-26 OLL Festival	4.MD.8 4.NBT.3 4.NBT.5	Recognize the area as additive. Find areas of rectangular figures by decomposing them into non-overlapping rectangles and adding the areas of the non-overlapping parts, applying this technique to solve real-world problems.  -Properties of multiplication -Multiplying patterns over increasing place values	Consumable textbook, manipulatives, and supplementary materials  Supplemental lesson on area of irregular shapes Lesson 3-1 multiplying units of 10	Test #1 Lessons 13-6 and 3-1 -irregular area -vocabulary -multiplying units of 10 over increasing place values
<b>Week 12 Oct. 27-31</b> 10/31 – Fun Run Reward Day	4.NBT.3 4.NBT.5	Estimating products  multiply and estimate a whole number of up to 4 digits by 1 digit. Illustrate and explain using equations and /or arrays	Consumable textbook, manipulatives, and supplementary materials	

	4 MP 4	Students experiment with representing problem situations in multiple ways, including numbers, words (mathematical language), drawing pictures, using objects, making a chart, list, or graph, creating equations, etc.  Attend to precision and develop mathematical communication skills to use clear and precise language in their discussions with others and in their own reasoning	Lesson 3-3 multiply using arrays Lesson 3-4 and 3-5 multiply using distributive property (area model method) Lesson 3-6 compensation Lesson 3-7 Traditional method  Lesson 3-8 and 6-3 multistep word problems to introduce students on talking out the steps to formulate a solution.	
Week 13 Nov. 3-7	4.NBT.3	Estimating products  Multiply and estimate two two- digit numbers using strategies based on place and value and the properties of operations. Illustrate and explain the calculations using equations, area models and /or arrays	Lesson 4-1 multiplying ten based numbers Lesson 4-3 estimation	Test #2 Lessons 3-3, 3-4, 3-5, 3-7 -multiplying 1 digit by up to 4 digits -estimation -multiply using one of the alternative methods
Week 14 Nov. 10-14	4.NBT.3 4.NBT.5 4 MP 4	Estimating products  Multiply and estimate two two- digit numbers using strategies based on place and value and the properties of operations. Illustrate and explain the calculations using equations, area models and /or arrays  Students experiment with representing problem situations in multiple ways, including numbers, words (mathematical language), drawing pictures, using objects, making a chart, list, or graph, creating equations, etc.	Lesson 4-1 multiplying ten based numbers Lesson 4-3 estimation Lesson 4-4 and 4-5 multiplication using area models Lesson 4-3 multiplication using traditional methods 4-7 multistep word problems  Lesson 6-4 and 6-5 multistep word problems for "Math Talk"	Quiz #2 Lessons 4-1 through 4-6 Multiplying 2 x 2 using traditional and alternative methods

	4.G.1	Draw and identify particular 2- dimensional geometric figures	Lesson 15-1 types of lines, point, ray, segments, types of angles	
Week 15	4.G.1 4.G.2	Draw and identify particular 2- dimensional geometric figures  Classify 2 dimensional figures based on the types of lines and angles	Consumable textbook, manipulatives, and supplementary materials	Quiz # 3 Lesson 15-1, definitions of geo terms, identify types of angles by degree and
Nov. 17-21	4.MD.5	Recognize angles as geometric shapes formed from 2 rays sharing a common vertex and understand concepts of angle measurement	Lesson 15-1 types of lines, point, ray, segments, types of angles	shape
		Thanksgiving Holidays Nov. 24-28		
Week 16 Dec. 1-5	4.MD.6  4.MD.7  4.MD.5a 4.MD.5b 4.MD.5c	Measuring angles in whole degrees using a protractor and sketch angles of specified measure.  Classify 2-dimensional figures based on the types of lines and angles  Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real-world and mathematical problems, e.g., by using an equation with a letter for the unknown angle measure.  Find the measure of an angle that turns a fraction of a circle	Consumable textbook, manipulatives, and supplementary materials  Lesson 15-2 – 15-4 measuring with unit angles, measuring with a protractor, drawing an angle, and finding the missing angle degree	Test # 3 Ch. 15 lessons 3, 4, and 5 Unit angles, measuring with unit angles, measuring and drawing angles with a protractor, finding the missing angle measurement

Week 17 Dec. 8-12	4.G.1 4.G.2	Draw and identify particular 2-dimensional geometric figures  Classify 2 dimensional figures based on the types of lines and angles	Consumable textbook, manipulatives, and supplementary materials  Lesson 16-1 16-3	Quiz 4 - *Basic skill review *Vocab puzzle *Geo. Scavenger Hunt- slides or poster
Week 18 Dec. 15-19 12/19 - ½ day	4.G.1 4.G.2	Recognize a line of symmetry for a 2-dimensional figure; identify line symmetric figures and draw lines of symmetry  Draw and identify particular 2-dimensional geometric figures  Classify 2 dimensional figures based on the types of lines and angles  Intro to long division	Lesson 16-4 16-5 Supplemental material to introduce long division	Test # 4 Chapter 16 Identify polygons by their sides, angles and types of lines; measuring and drawing angles; basic skill review
	•	Christmas Holidays Dec. 22 – Jan. 4		
		3rd Quarter		
Week 19 Jan. 5-9	4.NBT.6	Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	Consumable textbook, manipulatives, and supplementary materials  Supplemental material to introduce long division.  Lesson 5-4 word problems- identify operation needed to find solution	Quiz # 1 Long division (single step with and without remainders; multiply to check; Word problems to identify the correct equation/operati on needed, writing a division word problem.
Week 20 Jan. 12-16	4.0A.3 4.NBT.6	Solve division problems and interpret the remainders.  Finding compatible numbers to estimate	Consumable textbook, manipulatives, and supplementary materials	

		Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models	Lesson 5-2, 5-6, 5-8, 5-9 5-10	
Week 21 Jan. 19-23 1/19 – MLK Day No School	4.OA.3 4.OA.5	Test is for material covered on Week 20  Generate a number pattern that follows a given rule and identify features of the pattern that are not explicit in the rule itself Determine whether a given whole number is a multiple of a given one- digit number.	Supplemental material for rules of divisibility for 2,5, 10, 3 and 9	Test #1 Chapter 5 – long division, estimation, word problems, and pattern division
Week 22 Jan. 26-30 Catholic Schools Week 1/30 - Pep Rally	4.OA.4a 4.OA.4b 4.OA.4c 4.OA.4d	Generate a number pattern that follows a given rule and identify features of the pattern that are not explicit in the rule itself Determine whether a given whole number is a multiple of a given one- digit number.  Using whole numbers in the range 1–100, a. Find all factor pairs for a given whole number. b. Recognize that a given whole number is a multiple of each of its factors. c. Determine whether a given whole number is a multiple of a given one- digit number. d. Determine whether a given whole number is prime or composite.	Consumable textbook, manipulatives, and supplementary materials rules of divisibility for 2,5, 10, 3 and 9  Lessons-7-5 multiples of a number 7-1 factors 7-4 Prime and composite numbers	Application of divisibility rules for 2,3,5,9, and 10.
Week 23 Feb. 2-6	4.OA.4 4.OA.4a 4.OA.4b 4.OA.4c	Test is for material covered on Week 22.	Consumable textbook, manipulatives, and	Test #2 Lessons 7-1 through 7-5

Week 24 Feb. 9-13 2/13–1½ Day Grandparents Day	4.0A.4d 4.NF.2 4.NF.1	Understand a fraction as a number on the number line; represent fractions on a number line diagram.  Explain why a fraction a/b is equivalent to a fraction (n x a)/(n x b) by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size.  Use division to find equivalent fractions	supplementary materials  Lesson 8-5 compare using benchmark fractions  Consumable textbook, manipulatives, and supplementary materials  Lessons 8-1 8-2 8-3 8-4	Divisibility, factors, multiples, prime and composite numbers  Quiz #3 Ch 8 – Benchmark fractions and comparing fractions
		Mardi Gras Holiday February 16-20		
Week 25 Feb. 23-27	4.NF.1	Explain why a fraction a/b is equivalent to a fraction (n x a)/(n x b) by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size.  Use division to find equivalent fractions	Consumable textbook, manipulatives, and supplementary materials  Lessons 8-1 8-2 8-3 8-4	Test #3 Ch 8 – Benchmark fractions, comparing fractions and equivalent fractions
Week 26 March 2-6	4.NF.3b 4.MD.4	Understand addition and subtraction of fractions as joining and separating parts referring to the same whole. Example: 3/4 = 1/4 + 1/4 + 1/4. Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model. Read and interpret data using line plots	Consumable textbook, manipulatives, and supplementary materials  Lesson 9-1 through 9-6 Ch. 11 lessons 1-3	Test #4 Ch. 9 adding and subtracting fractions; Lesson 9-1 through 9-6 Ch. 11 lessons 1-4 Line plots

		Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Solve problems involving addition and subtraction of fractions by using information presented in line plots.		
Week 27 March 9-13 3/13 – ½ Day	4.NF.3b	Identify mixed numbers, proper and improper fractions. Change improper fractions to mixed numbers. Change mixed numbers to improper fractions.	Consumable textbook, manipulatives, and supplementary materials  Lesson 9-1 through 9-6 Ch. 11 lessons 1-3 supplemental lesson on mixed numbers and improper fractions	Quiz #4 Identifying mixed numbers, converting mixed numbers and improper fractions
		4th Quarter		
Week 28 March 16-20	4.NF.3c	Change improper fractions to mixed numbers. Change mixed numbers to improper fractions.  Use equivalent fractions, properties of operations and the relationship between addition and subtraction to add and subtract mixed numbers with like denominators.	Consumable textbook, manipulatives, and supplementary materials  supplemental lesson on mixed numbers and improper fractions  Lesson 9-8 through 9-10	Test # 1 – Ch.9  Decomposing fractions, adding and subtracting mixed numbers and improper fractions, multistep word problems
Week 29 March 23-27 3/26 – Passion Play	4.NF.3c 4.NF.3d 4 MP 4 4.NF.4b 4.NF.4c	Adding and subtraction fractions Word problems Line plots Multiply a fraction by a whole number. Solve word problems involving multiplication of a fraction by a whole number. Multiply a fraction by a whole number.	Consumable textbook, manipulatives, and supplementary materials  Lesson 10-1 through 10-4	Test #2 All lessons from Chapter 10 Converting units of time using a table

Week 31 April 13-17	4.NF.6 4.NF.7 4.NF.5	Convert fractions with denominators of 10 or 100 to decimals.	Lesson 12-3 Comparing decimals	
		Easter Holiday April 3-10		
Week 30 Mar 30 - Apr 3 No Bus Service 4/3 – Good Friday	4.NF.6 4.NF.7	Use decimal notation for fractions with denominators 10 or 100.  Convert fractions with denominators of 10 or 100 to decimals.  Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, =, or <, and justify the conclusions, e.g., by using a visual model.	Consumable textbook, manipulatives, and supplementary materials  Lesson 12-1 Reading and writing decimals and fractions  Lesson 12-2 decimals on a number line  Supplemental lesson on making equivalent decimals;	Quiz #1  writing decimals in word form; writing decimals as fractions and fractions as decimals;
	4.MD.1	Solve word problems involving multiplication of a fraction by a whole number. Know relative sizes of measurement units within one system of units; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. (Conversions are limited to onestep conversions.)  Convert fractions with denominators of 10 or 100 to		

Week 32 April 20-24	4.MD.1	hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, =, or <, and justify the conclusions, e.g., by using a visual model.  Know relative sizes of measurement units within one system of units including: ft, in; km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. (Conversions are limited to one-step conversions.)	Consumable textbook, manipulatives, and supplementary materials Linear units-customary Lesson 13-1 Lesson 13-4 metric linear units	Test # 3 all skills of Ch. 12 writing decimals in word form; writing decimals as fractions and fractions as decimals; decimals on a NL; comparing decimals; adding and subtracting with decimals This test may be moved up to Week 31- taking out a 2nd day with add fractions 10th and 100ths
Week 33 April 27 - May 1 5/1 - Field Day ½ Day	4.MD.1	**possible Standardized testing week  Know relative sizes of measurement units within one system of units including: ft, in; km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit.  (Conversions are limited to onestep conversions.)	Consumable textbook, manipulatives, and supplementary materials  Lesson 13-2 Units of capacity-customary	Quiz # 2  Converting customary and metric linear units, identify linear units as customary or metric
Week 34 May 4-8 5/5 May Crowning	4.MD.1	Know relative sizes of measurement units within one system of units including: ft, in;	Consumable textbook,	Quiz #3 Lessons 13-1, 13-2, 13-5

5/7 – 7 <sup>th</sup>		km, m, cm; kg, g; lb, oz.; l, ml; hr,	manipulatives,	Customary and
Graduation			•	Customary and metric
		min, sec. Within a single system	and	
		of measurement, express	supplementary	capacity and
		measurements in a larger unit in	materials	linear units
		terms of a smaller unit.		
		(Conversions are limited to one-	Lesson 13-2 and	
		step conversions.)	13-5	
			Units of capacity-	
			customary and	
			metric	
			Lesson 13-3, 13-5 -	
			units of mass 13-7	
			word problems	
	4.MD.1	Know relative sizes of	Consumable	Test #4
		measurement units within one	textbook,	
		system of units including: ft, in;	manipulatives,	Ch. 13 Identifying
		km, m, cm; kg, g; lb, oz.; l, ml; hr,	and	and converting
		min, sec. Within a single system	supplementary	customary and
		of measurement, express	materials	metric units of
		measurements in a larger unit in		capacity, mass
Week 35 May 11-15		terms of a smaller unit.	Lesson 13-2, 13-5 -	and linear units.
		(Conversions are limited to one-	units of weight	
		step conversions.)	and 13-7 word	Quiz #4 basic skill
		3.50	problems	review
	4 MP 6	Attend to precision when solving	F. 22.5	5-a-day
	'	word problems		worksheet
				complete specified IXL;
				unit cards and basic skill
				review questions.
Week 36				
May 18-21				
5/21 ½ day				